

Mosher

PAGE: 1

1643

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/879,827

DATE: 06/10/98  
TIME: 12:47:50

INPUT SET: S26584.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

#

7  
KO

8-24-98

1  
2  
3 (1) General Information:  
4  
5 (i) APPLICANT: Jofuku, K. Diane  
6 Okamuro, Jack K.  
7  
8 (ii) TITLE OF INVENTION: Methods for Improving Seeds  
9  
10 (iii) NUMBER OF SEQUENCES: 99  
11  
12 (iv) CORRESPONDENCE ADDRESS:  
13 (A) ADDRESSEE: Townsend and Townsend and Crew LLP  
14 (B) STREET: Two Embarcadero Center, Eighth Floor  
15 (C) CITY: San Francisco  
16 (D) STATE: California  
17 (E) COUNTRY: USA  
18 (F) ZIP: 94111-3834  
19  
20 (v) COMPUTER READABLE FORM:  
21 (A) MEDIUM TYPE: Floppy disk  
22 (B) COMPUTER: IBM PC compatible  
23 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
24 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30  
25  
26 (vi) CURRENT APPLICATION DATA:  
27 (A) APPLICATION NUMBER: US 08/879,827  
28 (B) FILING DATE: 20-JUN-1997  
29 (C) CLASSIFICATION:  
30  
31 (vii) PRIOR APPLICATION DATA:  
32 (A) APPLICATION NUMBER: US 08/700,152  
33 (B) FILING DATE: 20-AUG-1996  
34  
35 (viii) ATTORNEY/AGENT INFORMATION:  
36 (A) NAME: Bastian, Kevin L.  
37 (B) REGISTRATION NUMBER: 34,774  
38 (C) REFERENCE/DOCKET NUMBER: 023070-067210US  
39  
40 (ix) TELECOMMUNICATION INFORMATION:  
41 (A) TELEPHONE: (415) 576-0200  
42 (B) TELEFAX: (415) 576-0300  
43  
44  
45 (2) INFORMATION FOR SEQ ID NO:1:  
46

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/879,827DATE: 06/10/98  
TIME: 12:47:52

INPUT SET: S26584.raw

47 (i) SEQUENCE CHARACTERISTICS:  
48 (A) LENGTH: 1669 base pairs  
49 (B) TYPE: nucleic acid  
50 (C) STRANDEDNESS: single  
51 (D) TOPOLOGY: linear  
52  
53 (ii) MOLECULE TYPE: DNA (genomic)  
54  
55  
56 (ix) FEATURE:  
57 (A) NAME/KEY: -  
58 (B) LOCATION: 1..1669  
59 (D) OTHER INFORMATION: /note= "canola APETALA2 (AP2) domain  
60 containing (ADC) gene"  
61  
62 (ix) FEATURE:  
63 (A) NAME/KEY: misc\_feature  
64 (B) LOCATION: 1..592  
65 (D) OTHER INFORMATION: /note= "gene sequences 5' to start site"  
66  
67  
68 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
69  
70 CAGCNGNGTT TTCCNTNATN GTTCGTGGCG GCCCACGTGG TAGGAGAAGA CGGAAATTAA 60  
71  
72 CAAATTCATN GTCACCCTAC AAGAAAGGGG GAACATAATT AAATTTTCGAG TAGTTGGAGT 120  
73  
74 AGGAGAAGCT CAATAGTACA AGAAATTAAA TAAGATACTC CCATCTACAT CATCTTGCTT 180  
75  
76 TTTCTCATCC CATAATAGTT TTCCAGTAAA ACTGTGAACC TTGTGAATTT AATTTCCCTT 240  
77  
78 TTATATATAA AGATACCTTG TGGTGTTTAT ACTCAGGAGA CCAGAACTA GGAAACAGTC 300  
79  
80 TATTACATTT GTATTGGGAA ATAATCAAAT CTCAAAATTT GATTCATTCA TAAACTTTAT 360  
81  
82 ACTATATACT TTTTCGTTGA TAAATTTTTT GCCTCTCCTT CTAATAACGA ATGGAGTCCT 420  
83  
84 AGCACATATA TATTNCCTAA TGTGATTTTC ATTTTCATATG GATATTTATT TATATATGAC 480  
85  
86 TATTTATTCC ATCCCATCTT ATTGCTTTTG ATGGTCTCTT TGTCATTAGA GTCTTCTCTC 540  
87  
88 TTATTGCTCT CATATTTCTT TGCTTTTGTT TCCTCTTTAT TACAAGAGAG ATATGTGGAA 600  
89  
90 CCTTAACGAC TCACCTGATC ACCACGAAGA ATCCGACGGT AGATGGAAAC GGGCTGGAGA 660  
91  
92 TGTACCAATC TCTATGAGAT CATCGACCAC GTGTCTGTCG TCTGTTCCCTC CCGTGACCCG 720  
93  
94 GATATTTTTT TCCGAATCAA ATCATGGAAC AGGAAGTTCC AGGAATATCT GGGTCCCCGTA 780  
95  
96 TCACTAGAAA CCAGTCTCTT GTTCGGTCGA ATCCTAGCGG GTCTGGTCGT CCGGAAAACC 840  
97  
98 TAGAGCTGGA GATAACACAG CCGGTAAAAA AGAGCCGACG TGGTCCTCGC TCACGGAGCT 900  
99

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/879,827DATE: 06/10/98  
TIME: 12:47:53

INPUT SET: S26584.raw

```
100 CTCAGTATAG AGGAGTTACT TTTTATCGAC GAACCGGAAG ATGGGAGTCA CATATTTGGT 960
101
102 AACTTAATTT TCTTAACCCG ACGATATACC GAATACTATT ATTACCTATA TGGTAAATCT 1020
103
104 ATCAAATACA TGTTTCATTT CATTTGAGCC NATACCGTAT TGTGTGTTTT AAAATATGTT 1080
105
106 TGGAATCTTA TGCAGGGACT GCGGGAAGCA AGTGTACTTA GGTATGATCA TGTAATGTTG 1140
107
108 TTCAAACACA GATCAAATAT CCTATTGAAA CTAAGTTGTG TTGTGTCTGT CCATTTTTTAT 1200
109
110 ATGATTTCTT CGACCAAATA AAGGTTTTAT TATCTCCTTA TATTACTTTT TGTTACATAT 1260
111
112 TCAGGTGGAT TTGACACAGC ACATGCCGCT GCTCGGTATG TTTTACTCAT CCAAATATGA 1320
113
114 TCAATTAGAA CGAATCTAAT ATTCCTTATT TTGTAATTTG CTGATATACA AATTAATTTG 1380
115
116 GGTGGGTAAC TGTTTGGGAC AGTGCCTACG ATAGAGCCGC AGTTAAGTTT AGAGGTGTAG 1440
117
118 ATGCAGATAT AAATTTCAAT ATTGAAGACT ATGTGGAGGA TTTGAAACAG GTAAAAATATT 1500
119
120 TATTATTTGT AGGTTCAAGC AATTGACTTA GATTATTACT CGAACATAAA ACAAATTAAT 1560
121
122 ATTTGTTGCA GATGACGCAG TTGACAAAGG AAGAGTTCAT GCATGTCATT AGAAGGCCAA 1620
123
124 GCACTGGGTT TCCAAGAGGC AGCTCTAAGT ATAGAGGTGT CACTTTGCA 1669
125
126
```

## (2) INFORMATION FOR SEQ ID NO:2:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 803 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: DNA (genomic)

## (ix) FEATURE:

(A) NAME/KEY: -

(B) LOCATION: 1..803

(D) OTHER INFORMATION: /note= "soybean APETALA2 (AP2) gene"

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

```
146 GGATTGTGGG AAACAAGTTT ATCTAGGTAA AGTTGATTAA TAACAATAAT TGTATATGTG 60
147
148 TTTGTGAGAA CTGTGGCAGT TATTTTTCCT AATATTGTTT TAAGAGGCTA AAACGGTTTT 120
149
150 TTTTTCCTTG TTTTGTGTTT TTTGTCTTGG CTGTGATGCG GTAGAGACAA GAGTGTGAGT 180
151
152 GTGTGTTGTG TGTGGGTGAG GATTTTTTTR TTTTTTGTG GTGACTGACT TGATGGTTTT 240
```

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/879,827DATE: 06/10/98  
TIME: 12:47:55

INPUT SET: S26584.raw

153  
154 TGTCTGGGTA AAATTTGTCT AGGTGGATTT GACACAGCAC ATGCGGCTGC TCGGTGAGCC 300  
155  
156 CTTGCCCCCT CCTTTAGTAT TATACCAAGC TTGTAATATT ACTTTTCCCA TGTCTTGAAC 360  
157  
158 CAAATATCAA ATATTATTGT AAATCACATT TCGTTGTGGG CCGGGGAATT GTGAGTCTCA 420  
159  
160 AAGAAAATTG TGTATTTTCC GTCTCTCTTT TCAGTGCTTA TGATAGAGCG GCTATTAAAT 480  
161  
162 TCCGAGGAGT GGAGGCTGAC ATTAACCTCA ATATTGGAGA CTATGAAGAT GACTTGAAGC 540  
163  
164 AGGTGATCAA TTTGTGGATT ATGTTTTTTT TATTCGATAT AAATGCATTT ATCGTATTTA 600  
165  
166 TCTTATCTTG AACAGTCATA CGTATAGGAT GCACCTTATC TCCTACAGTT AGTGTTTTTT 660  
167  
168 TTTATCTTGA ATTATTCTCA TGATTTTGTT AAATGCAATG TTAATAGATG AGCAATCTTA 720  
169  
170 CCAAGGAAGA GTTCGTCCAC GTGCTTCGCC GCCAAAGCAC TGGATTTCCG AGAGGAAGCT 780  
171  
172 CCAAGTATAG AGGTGTCACT TGC 803  
173  
174  
175 (2) INFORMATION FOR SEQ ID NO:3:  
176  
177 (i) SEQUENCE CHARACTERISTICS:  
178 (A) LENGTH: 11721 base pairs  
179 (B) TYPE: nucleic acid  
180 (C) STRANDEDNESS: single  
181 (D) TOPOLOGY: linear  
182  
183 (ii) MOLECULE TYPE: DNA (genomic)  
184  
185  
186 (ix) FEATURE:  
187 (A) NAME/KEY: -  
188 (B) LOCATION: 1..11721  
189 (D) OTHER INFORMATION: /note= "Arabidopsis APETALA2 (AP2)  
190 genomic sequence"  
191  
192  
193 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:  
194  
195 GTAAGCAATA ATATAGTTTG AACAATGAGT TCAAAAGCCT TTGGTTGGAA TAACTCATTA 60  
196  
197 AGAAAACAGA TAGTTTAAAA TCAATTGAAT TATGATTTC ACATAGTAT AAGTTTGGGC 120  
198  
199 AAAGTATTTT AATGGAAATA GAATACAAAC TTGATAACAA GTTATTGCCA TTTAGAAAAT 180  
200  
201 GTTATAACTC CTTATATAGT GAGAACCCTA TTGCTTGCTT GTGTTCAAGG AATTGCTGTT 240  
202  
203 TATGGAACTC CACTTTAAAT AAACATATAA ATAATCTATT TAGTATCAAA AACTTAATAT 300  
204  
205 CCCATCTACT TTGAATTTGC CCGATCATGA AAACACCTAT TTATTGTACA TAAATATACA 360

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/879,827DATE: 06/10/98  
TIME: 12:47:57

INPUT SET: S26584.raw

206							
207	TCTTTAACAA	ATATAGATCT	ATTTGTATTT	GTATCTTATT	ACCTTTTATT	CATATAGAAA	420
208							
209	AAGGAAAAAA	CAAACAAAAA	GCTTTGTTCC	AAGAGTTTAA	AGTATATCAA	AATTGGCAGT	480
210							
211	ATTGTGGGGT	TTTGAAGTAA	TCTACTAGAT	TATTCATTTT	CTTGCAAAAA	ACACCTTTTT	540
212							
213	ATAGTTGCTT	ACCGAACCAA	GCCGTGGACT	TCACTTTCTT	AAAACATGAA	ATTACATATT	600
214							
215	AAAGGAATCT	TTTGATTAAT	CAAAGAAGAT	GTTTGTATAC	ATAGATAATA	AATGAAAGTG	660
216							
217	GAAATATTTT	TTTTTAAAAA	AAAGAAAAAA	AATAAAGAAA	CTCCAATACG	AGGAATTGTT	720
218							
219	TCGAATATAA	TCTTTTTTCC	AAAGAAAGCA	AGTGGTTAGA	GAGAGAATAA	TATTATTTTA	780
220							
221	TTAAATTTTT	ACAAAAAAAA	CAGTGACAAG	AGAAGAGAGA	GAGAGAAAAG	GCAGTGGAA	840
222							
223	TAAATATAAA	GGAAAGGATA	AAAATGAAAG	CTTTCGTAGA	AGCAATCTAT	CAAATTTTTA	900
224							
225	TTTTATTTTC	TTCTCTCTCT	CTCTTTAGCT	CTTTTTTTTT	TGTTTTTCATT	AAAGTTTTTA	960
226							
227	TTTTATTTTC	TACCAACCAA	AAGCTTTTCT	CTTTGGTTTC	TCTTATTTAG	CTTCTAACCT	1020
228							
229	TGAGGAGAAT	CATACCAGAG	GATTGAAGTT	TGAACCTTCA	AAGATCAAAA	TCAAGAAACC	1080
230							
231	AAAAAAAAC	AAAAAAAATG	TGGGATCTAA	ACGACGCACC	ACACCAAACA	CAAAGAGAAG	1140
232							
233	AAGAATCTGA	AGAGTTTTGT	TATTCTTCAC	CAAGTAAACG	GGTTGGATCT	TTCTCTAATT	1200
234							
235	CTAGCTCTTC	AGCTGTTGTT	ATCGAAGATG	GATCCGATGA	CGATGAACTT	AACCGGGTCA	1260
236							
237	GACCCAATAA	CCCACTTGTC	ACCCATCAGT	TCTTCCCTGA	GATGGATTCT	AACGGCGGTG	1320
238							
239	GTGTTGCTTC	TGGCTTTCCT	CGGGCTCACT	GGTTTGGTGT	TAAGTTTTGT	CAGTCGGATC	1380
240							
241	TAGCCACCGG	ATCGTCCGCG	GGTAAAGCTA	CCAACGTTGC	CGCTGCCGTA	GTGGAGCCGG	1440
242							
243	CACAGCCGTT	GAAAAAGAGT	CGGCGTGGAC	CAAGATCAAG	AAGTTCTCAG	TATAGAGGTG	1500
244							
245	TTACGTTTTA	CCGGCGTACC	GGAAGATGGG	AATCTCATAT	TTGGTAATAA	TCTCATATTT	1560
246							
247	TTAATTTTCG	TAATCGATCG	TACTTTAGAT	TATAAAATTA	AGTTTTTTTT	TGTTTGTTC	1620
248							
249	TCTGAATTTT	AGGGACTGTG	GGAAACAAGT	TACTTAGGTT	AATTTTATTT	TCCTCATGTT	1680
250							
251	TTTTTTTGTA	TTTTGGTGTT	GAAAAATGTC	ATCATAATTT	TAATTTATTA	TAANCTCTGA	1740
252							
253	ATAGGTGGAT	TTGACACTGC	TCATGCAGCA	GCTCGGTATT	TTTCTCTCTT	TGACTCTCTC	1800
254							
255	TATATTGAGT	TGTTATTTAT	TTATTTTTTT	AAAAATACCG	GAAGAAATTT	ATAAAAAATTA	1860
256							
257	ATTTTAATTT	TGTTTTATTT	AATAGAGCAT	ATGATAGAGC	TGCTATTAAA	TTCCGTGGAG	1920
258							

PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/879,827**

DATE: 06/10/98  
TIME: 12:47:59

*INPUT SET: S26584.raw*

Line

Error

Original Text